

FIG. 1A

H A	XATHM	P	HHEAS	M	BXBNMDD	E
I L	HVPANN	L	AACPC	N	IHALBPPI	C
N U	OAHQFL	E	EERYR	L	NOMAONNN	O
3 1	111111	1	13211	1	12141211	K
	/ ///		/ ///		/ ///	
GAGGTGAAGCTTCTCGAGTCTGGAGGTGGCCCTGGTGCAGTCTGGAGGATCCCTGAAACTC						
-----+-----+-----+-----+-----+-----+-----+ 60						
CTCCACTTCGAAGAGCTCAGACCTCCACCGGACCACGTCAGACCTCCTAGGGACTTTGAG						
e v k l l e s g g g l v q s g s l k l						
-----+-----+-----+-----+-----+-----+-----+						

F MD	THBTMH	ANAFH	NEB
N SD	FNBANN	VLSOP	LCS
U TE	IFVQLF	AUKA	ARA
H 21	111113	24112	42J
	/	/	/
TCCTGTGCAGCCTCAGGATTCGATTTTACTACATATTTGGATGAGTTGGTCCGGCAGGCT			
-----+-----+-----+-----+-----+-----+-----+ 120			
AGGACACGTCGGAGTCCTAAGCTAAATGATGTATAACCTACTCAACCCAGGCCGTCCTCGA			
s c a a s g f d f t t y w m s w v r q a			
-----+-----+-----+-----+-----+-----+-----+			

SASB	SHRM	F	R	M
EPCS	TAAMA	O	S	S
CYRA	UEEAE	K	A	E
111J	11311	1	1	1
	/ ///			
CCAGGGAAGGCCTAGAATGGATTGGAGAAATTCATCCAGATAGCAGTACGTAATAT				
-----+-----+-----+-----+-----+-----+-----+ 180				
GGTCCCTTCCGGATCTTACCTAACCTCTTTAAGTAGGTCTATCGTCATGCTAATTGATA				
p g k g l e w i g e i h p d s s t i n y				
-----+-----+-----+-----+-----+-----+-----+				

H H	B	A	A	BB	A	R
I H	S	L	L	SS	L	S
N A	M	W	W	MM	W	A
P 1	2	2	2	22	2	1

CGCCGCTCTCTAAAGGATAAAATTCATCGTCTCCAGAGACAACGCCAAAAATACGCTGTAC	240
CGCGCAGAGATTTCCTATTAAAGTAGCAGAGGCTCTCTGTGCGGTTTTTATGCGACATG	
a p s l k d k f i v s r d n a k n t l y	

B	M XBMDDD
S	N HGBPPD
P	L OLNNE
1	1 221211

CTGCAAAATGAGCAAAGTGAGATCTGAGGACACAGCCCTTTATTACTGTGCAAGCCTTTAC	300
GACGTTTACTCGTTTCACTCTAGACTCCCTGTGTCGGGAAATAATGACACGTTCCGGAATG	
l q m s k v r s e d t a l y y c a s l y	

BSBEAS	ANHSSBBP	H F H M	B
SESCPC	SLATESL	N I P A	S
ACARYR	UAEYCAAE	F N A E	M
J1J211	14311JJ1	1 1 2 3	2

TTCCGCTTCCCTCGTTTGCTTATTTGGGCCCAAGGACTCCGGTCACTGTCTCTGCA	357
AAGCCGAAGGGACCAACGAATAACCCCGTTCCCTGAGGCCAGTGACAGACGT	
f g f p w f a y w g q g t p v t v s a	

FIG. 1B

PNA N T	B	A	A B B	T H
VSL S T	S	L	L S S	T P
UPU P H	M	W	W T M	H H
2r1 r 1	2	2	2 X 2	1 1

GAAATTCAGCTGACCCAGTCTCACAATAATGATGTCCACATCAGTGGGAGACAGGGTCAGC					60
CTTTAAGTCGACTGGGTCAGAGTGTTTACTACAGGTGTAGTACCCCTCTGTCCAGTCG					
e i q l t q s h k m m s t s v g d r v s					

S	BHH	R	F	E A S	BPB	E EAS
F	SAA	S	O	C P C	SPS	C CPC
A	PEE	A	K	R Y R	MAA	R PYR
N	113	1	1	2 11	211	2 111

ATCACCTGCAAGGCCAGTCAGGATGTGGGTACTTCTGTAGCCCTGGTATCAACAGAGACCA					120
TAGTGGACGTTCCGGTCAGTCCCTACACCCATGAAGACATCGGACCATAGTTGTCTCTGGT					
i t c k a s q d v g t s v a w y q q r p					

E F	NSH	HF	MPDD
C O	CCP	NI	BLPP
O K	IRA	FN	OENN
D 1	112	11	1121

GGACAATCTCCTAACTACTGATTACTGGACATCCACCCGGCACACTGGAGTCCCTGAT					180
CCTGTTAGAGGATTTGATGACTAAATGACCTGTAGTGGGCCGCTGTGACCTCAGGGACTA					
g q s p k l l i y w t s t r h t g v p d					

FIG. 2A

FIG. 3

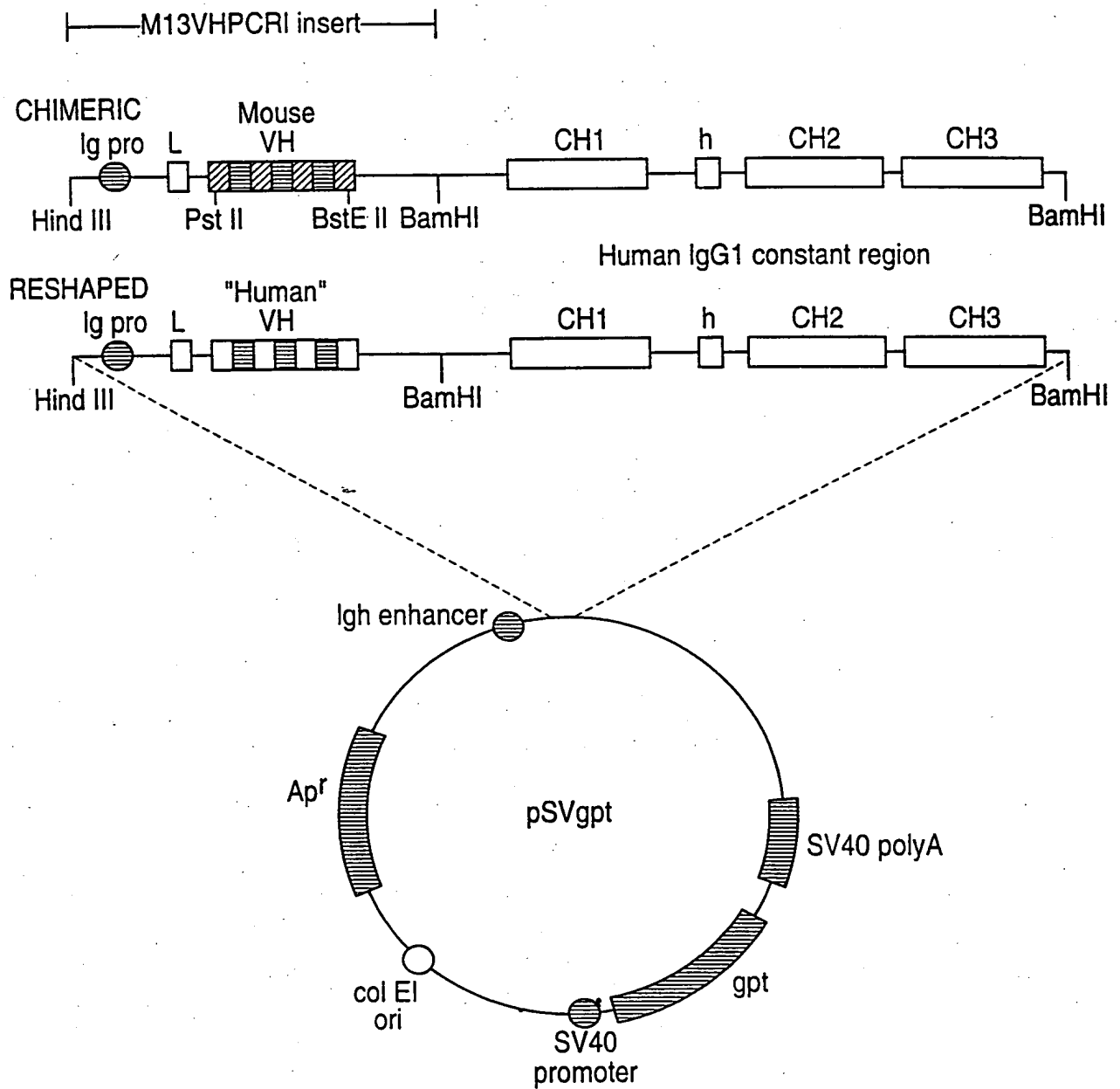


FIG. 4

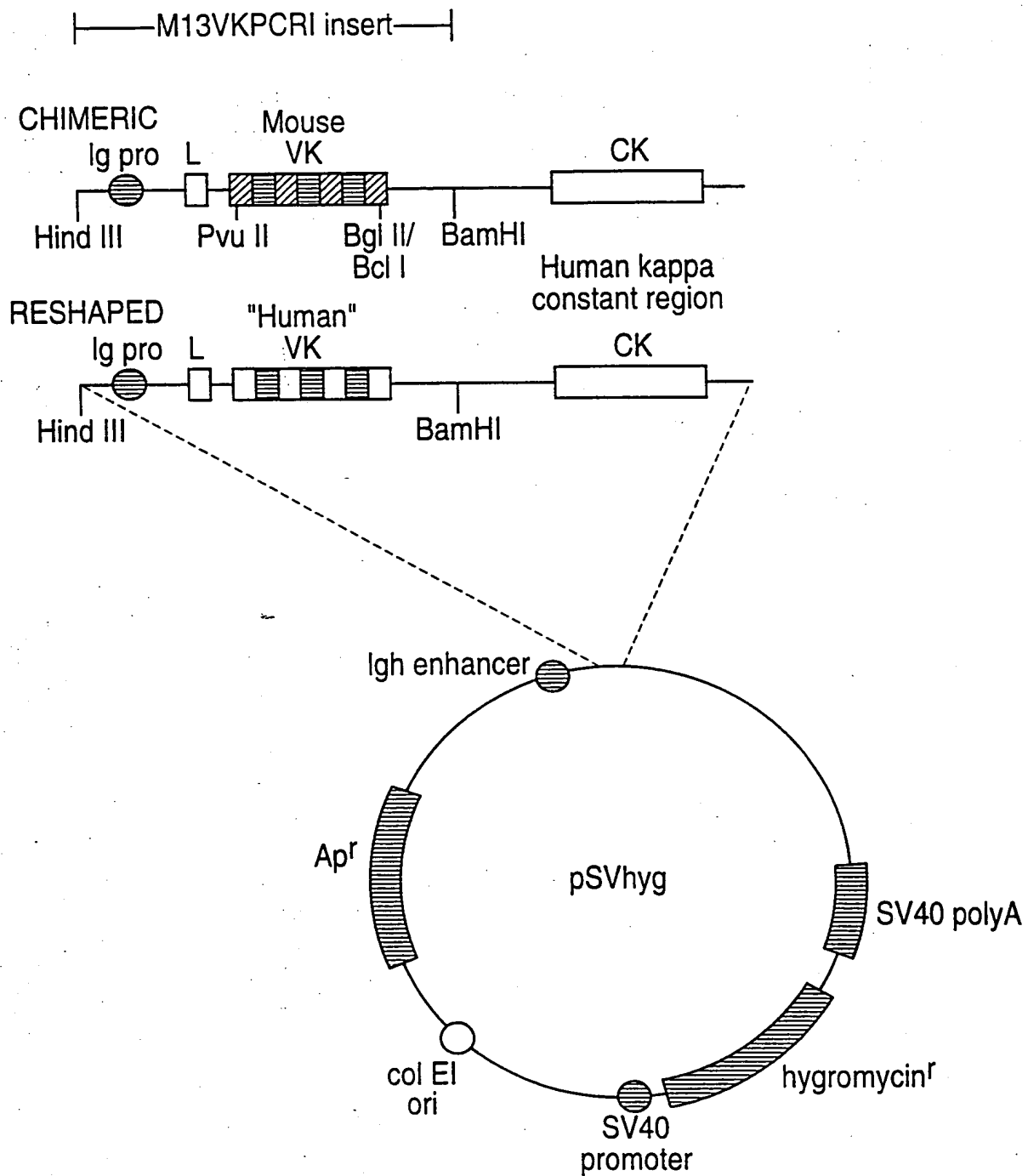


FIG. 5A

	10v	20v	24	27	2830	40v	50v
MN14VH	EVLLESGGLVQSGGLKLS	CAASGDFDTTYWMS	WVRQ	APGKLEWIG	EI		
	:V:L ESG GLV:::	L:L:C:SG .F: .	:WVRQ:PG:GLEWIG :				
NEWMVH	QVQLQESGPGGLVRPSQ	TLSTCTVSGSTFSNDY	YTWVRQ	PPGRGLEWIGYV			
	10^	20^	30^	40^	50^		
	60v	71	80v	90v	98		
MN14VH	HPDSSTINYAPSLKDK	FIVSRD	NAKNTLYLQMSK	VRSEDTALYYCAS	LYFG		
	:::: : :P L:::	:D::KN : L::S.V :	DTA:YYCA. :				
NEWMVH	FYHGTSDDTTP-LRS	RVFMLVDTSKNQFSL	RLLSSVTAADTAVYY	CARNLIA			
	60^	70^	80^	90^	100^		
	110v						
MN14VH	FPWFAYWGQGTPTV	TVSA					
	: :WGQGT.VTVS:						
NEWMVH	GC-IDVWGQGTPTV	TVSS					
	110^						
	10v	20v	30v	40v	50v		
MN14VK	EIQLTQSHKMMSTSV	GDRVSITCKASQD	VGTSVAWYQQR	PGQSPKLLIY	WT		
	:IQLTQS.. :S:SV	GDRV:ITC:ASQD: .	:WYQQ:PG::PKLLIY :				
REIVK	DIQLTQSPSSLASV	GDRVITTCQASQ	DIKYLWYQQ	KPGKAPKLLI	YEA		
	10^	20^	30^	40^	50^		
	60v	70v	80v	90v	100v		
MN14VK	STRHTGVPDRFTGS	VGTDFTLTITNVQ	SEDLADYFCQ	QY-SLYRS	FGGGT		
	S. :GVP.RF:GS	SGTDFT:TI:::Q:ED:A.Y:CQ	QY SL :FG	GT			
REIVK	SNLQA	GVP	SRFSGSGTDFT	FTISSLPEDIA	TYCYQQYQSLPY	TFGQGT	
	60^	70^	80^	90^	100^		
MN14VK	KLEIK						
REIVK	K:EIK						
REIVK	KVEIK						

FIG. 5B

MN14VH	EVKLLESGGLVQSGGSLKLSCAASGFDFT	TYWMSWVRQAPGKGLEWIGEI	50v
	EV:L:ESGG:VQ:G SL:LSC::SGF F::Y M WVRQAPGKGLEW::I		
KOLVH	EVQLVESGGGVVQPGRLSLRSCSSSGFIFSSYAMYWVRQAPGKGLEWVAII		50^
	10^	20^	30^
	60v	70v	80v
MN14VH	HPDSSTINYAPSLKDKFIVSRDNDNAKNTLYLQMSKVRSEDTALYYCAS		90v
	D:S. :YA S:K::F.:SRDN:KNTL:LQM.:R:EDT::Y:CA		
KOLVH	WDDGSDQHYADSVKGRFTISRDNKNTLFLQMDSLRPEDTGVYFCARDGGH		100^
	60^	70^	80^
	110v		
MN14VH	-LYFGFPWF--AYWGQGTPTVTVSA		
	::: F .YWGQGTPTVTVS:		
KOLVH	GFCSSASCFGPDYWGQGTPTVTVSS		120^
	110^		

FIG. 6A

	FR1	CDR1	FR2
Murine	24 27 30		48
NEWMVh	EVKLLESGGLVQSGSLKLSCAASGFDFT	TYWMS	WVRQAPGKGLEWIG
NMHuVh	Q-Q-Q---P---RPSQT-S-T-TV--ST-S	---	---P--R---
NMHUVhTLY	Q-Q-Q---P---RPSQT-S-T-T-----	---	---P--R---
NMHUVhKRSE	Q-Q-Q---P---RPSQT-S-T-T-----	---	---P--R---
NMHUVhKFIVS	Q-Q-Q---P---RPSQT-S-T-T-----	---	---P--R---
KOLVh	Q-Q-Q---P---RPSQT-S-T-T-----	---	---P--R---
KLHuVh	--Q-V---V--P-R-R--SS--I-S	---	---VA
KLHuVhAIG	--Q-V---V--P-R-R--SS-----	---	---VA
KLHuVhAIGA	--Q-V---V--P-R-R--S-----	---	---
KLHuVhAIGAY	--Q-V---V--P-R-R--S-----	---	---

FIG. 6B

	66	71	74	77	79	82	94
Murine	EIH	P	D	S	S	T	I
NEW	M	V	h				
NM	H	u	V	h			
NM	H	u	V	h	T	L	
NM	H	u	V	h	K	R	
NM	H	u	V	h	K	F	
KOL	V	h					
KL	H	u	V	h			
KL	H	u	V	h	A	I	
KL	H	u	V	h	A	I	
KL	H	u	V	h	A	I	

FIG. 6C

	CDR3	FR4
Murine	LYFGFPWFAY	WGQGTPPTVSA
NEWMVh	-----	---T---S
NMHuVh	-----	---T---S
NMHUVhTLY	-----	---T---S
NMHUVhKRSE	-----	---T---S
NMHUVhKFIVS	-----	---T---S
KOLVh	-----	-----S
KLHuVh	-----	-----S
KLHuVhAIG	-----	-----S
KLHuVhAIGA	-----	-----S
KLHuVhAIGAY	-----	-----S

[illegible]

CDRH3

[illegible]

FCK1

EC15\
KPN1\
RSA1\
NLA1
ASPI\
BANI

HLA4

DPH1\
DPH2\
ECI5
HDO1

FCK1

FNDH
ALO1

HPA2\
SRI\
NCII

CDRL1

[illegible]

CDRL2

HNL
BBWN

HNL

FNUN

EC15

HPH

HPH\
KPN
RSA\
NLA
ASP\
BANI

ACIS

ACIS

NSP1
ACISHNF\
IFIS[illegible]

HAE2

33AJ
BSAJ
SEC1
STY1
FYNI
ASUI
NLA4
AVA3

BSAJ
BSAJ
SEC1
STY1
HAE3
CFR1
GDI2

MNL 1

TTH2

TATAGCCTCTATCGGTCGTTCGGCCAAAGGACCAAGTGGAATCAA
271 + - - - - + - - - - + - - - - + - - - - + - - - -
ATATCGGAGATAGCCAGCAAGCCGGTTCCTGGTTCCACCTTAGTTT
Y S L Y R S F G G G T K V G I K

CDRL3

FIG. 9

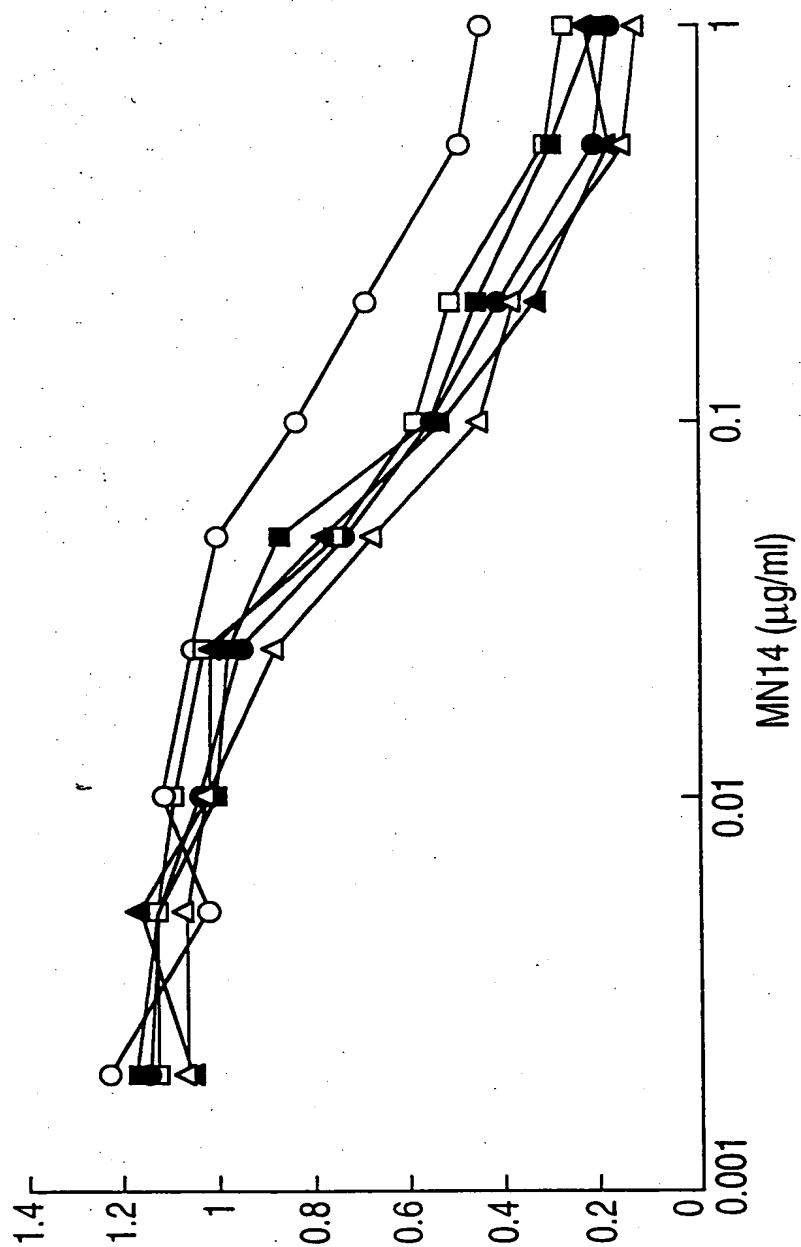


FIG. 10

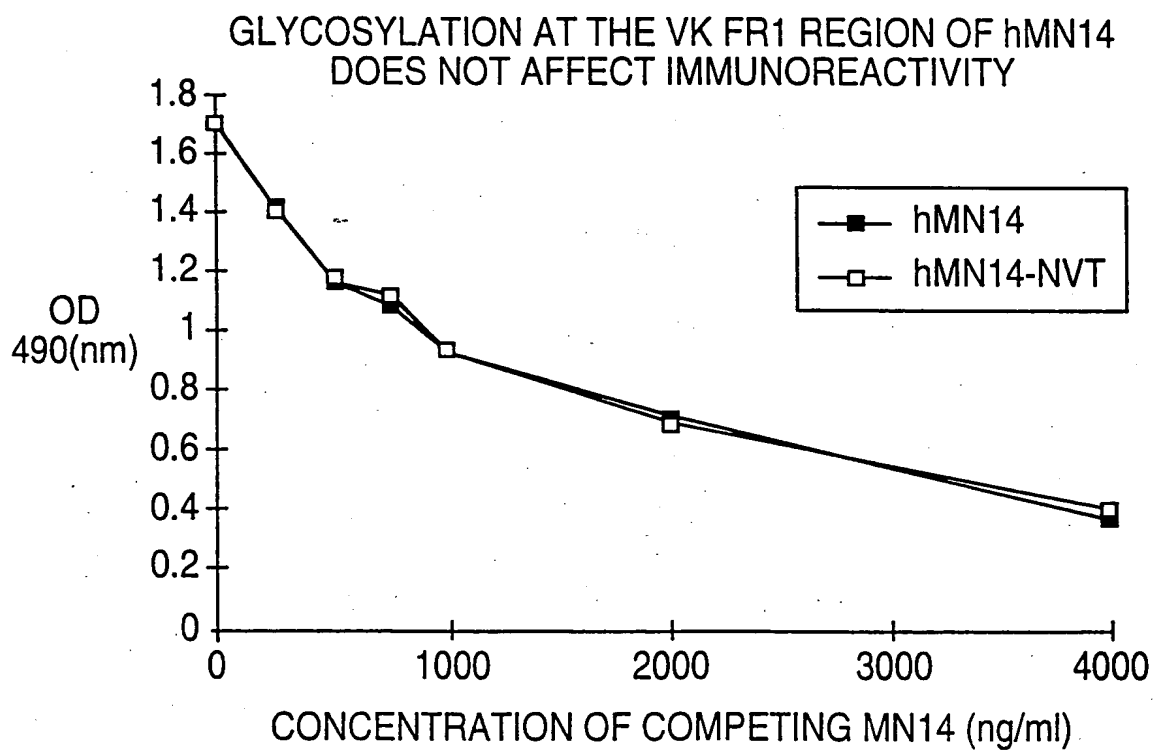


FIG. II

